Statement of Qualifications

Statewide On-Call Preliminary Engineering Prequalified List of Consultants for Locally Administered Local Public Agency (LPA) Qualifications-Based Selection Contracts

New Hampshire

December 29
2021

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Mr. William J. Oldenburg, PE — Assistant Director of Project Development
Chairperson, Consultant Selection Committee
New Hampshire Department of Transportation
P.O. Box 483, 7 Hazen Drive, Concord, NH 03302-0483

RE: On-Call Preliminary Engineering Prequalified List of Consultants for Locally Administered Local Public Agency (LPA) Qualifications-Based Selection Contracts

Dear Mr. Oldenburg,

HDR is pleased to submit this Letter of Interest for prequalification for NHDOT's Local Public Agency (LPA) program and roster. Through our collective experience of working with municipal and State partners around in New England, we have developed significant expertise in the planning and delivery of locally administered projects, funded both locally and with State/Federal funds.

HDR is a full-service planning, civil/transportation, structural and environmental services firm with over 10,000 employee-owners working for public and private clients worldwide. Regionally, we have established an office in Manchester, NH and served NHDOT for over 10 years, bringing this experience closer to our northeast State and municipal partners.

We are currently serving NHDOT and several local communities on a range of multi-modal transportation infrastructure projects, and our key staff are LPA Certified. Project Manager **Roch Larochelle, PE** and former NHDOT Chief Project Manager **Keith Cota, PE**, who will serve as Deputy Project Manager, round out a team that has significant experience in the planning, execution and delivery of projects under NHDOT's various funding programs. Our collective teams' experience includes Transportation Enhancement, Highway Safety Improvement Program, Safe Routes to School, and Congestion Mitigation & Air Quality, as well as traditional State Aid Highway and State Bridge Aid projects at both the program and project delivery level.

Specific types of assignments that we may complete under this LPA program include the following:

- Program Management and Public Outreach
- Topographic Survey & Right of Way
- Highway Design/Traffic/Multi-Modal
- Geotechnical Evaluation and Analysis
- Alternative Procurement & Delivery
- Hydrology and Hydraulics
- Bridge Design, Inspection & Load Rating
- Environmental Documents and Permitting

Our team is committed to supporting NHDOT and our municipal partners when and where needed and to appropriately scale our efforts to match assignment needs. We look forward to the opportunity to discuss this further with you and your staff.

Sincerely,
HDR Engineering, Inc.

Anthony R. Gouveia, PE
Senior Vice President | Transportation
Business Group Manager

Roch D. Larochelle, PE
Associate | Senior Project Manager

hdrinc.com

250 Commercial Street, Suite 3007, Manchester, NH 03101-1120
T 603.391.0900

Project Understanding and Approach

HDR has a **comprehensive understanding** of NHDOT's LPA Manual and experience to successfully administer LPA projects. HDR continues to provide design and project development on a broad range of federal, state and locally funded multi-modal transportation projects within New Hampshire and New England. We understand the expectation of the LPA process, so there is no learning curve for us to navigate. HDR's experienced engineers, designers, and planners can work seamlessly with municipalities and the NHDOT to achieve successful project delivery. If needed, HDR has a vast number of national subject matter experts (ROW, rail, transit, hydrology, economics, etc.) to support the most complex LPA projects.

Our project management approach allows us to integrate the community needs and objectives through effective public involvement to foster community support while meeting the standard of design and environmental oversight. Each community inherently has its own decision-making process, requiring HDR to work with City Councils, Boards of Selectmen, ad-hoc committees, and even present projects at town meetings as part of seeking warrant article approval. HDR integrates the local process with the multifaceted LPA processes so design and construction approvals are successfully achieved through the local community, which allows NHDOT's projects to stay on schedule and on budget.

Integral within the LPA manual, the development of a project is broken out into three phases: Engineering Study, Preliminary Design, and Final Design. Each phase has been developed to bring a sequence of signoffs/approvals through NHDOT so the LPA process is successfully administered. HDR sees the importance for focusing on the following deliverables in each of the phases as follows:

Engineering Study

This early phase evaluates how the project is environmentally feasible to build given existing geometric and budgetary constraints with identification of cultural and natural resources. This initial phase focuses on data collection: existing physical conditions (survey), safety and traffic data, and environmental/cultural/historic resources. With this information, the first "listening session" informational meeting is held to obtain local property owner and community input on what they see the project issues are. From this critical "local concerns" meeting, we evaluate alternatives and prepare an Engineering Study Report that identifies the Proposed Action with an assessment of environmental impacts. This process includes taking advantage of NHDOT's cultural and natural agency coordination meetings to seek guidance and direction from environmental and permitting agencies to instill confidence in the project decision process. The presentation of the approved Engineering Study Report will then be brought to a second public informational meeting for feedback.

Preliminary Design

This phase takes the concepts from the Engineering Study and refines them to support the environmental sign-off and refines the preferred layout into a more detailed design plan for property and utility impacts, incorporation of project commitments and refinement of project estimate. Concurrently, the permitting efforts include the preparation of the appropriate level of environmental documentation for approval through the regulatory NEPA process. The preliminary design process may include an additional public informational meeting or, if needed, a formal public "necessity" hearing that is dependent upon the level of property impacts and necessary acquisitions. Upon success of the public hearing and the successful sign-off on the environmental document, the project then advances into Final Design.

Final Design

The preferred alternative from Preliminary Design is developed into final contract plans and contract documents. The ROW process can officially begin, and any easements needed are attained. Project permits needed are obtained and utility coordination completed. Once all project elements are complete, the project will seek authorization through NHDOT to advertise, and bidding of the project can commence. After bids are opened, each contractor bid is analyzed and a recommendation to award prepared and processed

for approval by NHDOT. At this point, with NHDOT's authorization to award, the Final Design phase is concluded.

Capabilities and Experience

HDR's project approach is further outlined below for highway design, bridge design, LPA experience and public outreach process, all critical to the success of the project management for LPA projects. Our team has the technical expertise and experience to complete all aspects of the projects within the LPA program. HDR has the expertise to manage road, bridge and traffic, environmental oversight, geotechnical engineering, utility engineering, stormwater design, rail design, and ROW acquisitions. We also have established subconsultant relationships to undertake ground surveying and ROW monumentation as well as other unique project elements that may be required. Key elements of our approach includes:

Highway Design

Our team has extensive experience with highway/multimodal designs within New Hampshire and New England. We are currently providing project management/engineering for the City of Concord and Manchester through the LPA project and State Aid Bridge program. Our highway design work includes roadway reconstruction/rehabilitation; intersection and signal improvements/realignments; traffic control development; utility coordination; sidewalk and pedestrian crossings; stormwater management and drainage design; ADA compliance audits/upgrades; and multi-use path/recreation trail construction/rehabilitation. Through our work with the NHDOT, HDR has built an excellent working knowledge of the process requirements for NHDOT/LPA design and has a full understanding of the design manuals and documents requirements to meet project success. For this assignment, HDR has team expertise in all design elements. We will be teaming with Doucet Survey, LLC for survey and ROW monumentation who has assisted us on other LPA projects.

Bridge Design

Municipal and state bridge projects are a significant part of HDR's practice. Within the Manchester office, we have a team of structural design engineers who have experience in bridge inspection, load ratings, evaluation of structure alternatives, design of single and multi-span structures, bridges integrated with roadway and drainage projects, pedestrian bridges, and renovation of historic bridges. Within our local and regional offices, our staff has the capabilities to perform hydrologic and hydraulic analysis and studies for projects. HDR excels in experience with a variety of bridge projects through local government sponsored project (like State Bridge Aid) and more complex bridge projects involving major vehicular, rail and pedestrian corridors. There is no bridge project that cannot be successfully engineered through our experienced interdisciplinary teams within HDR.

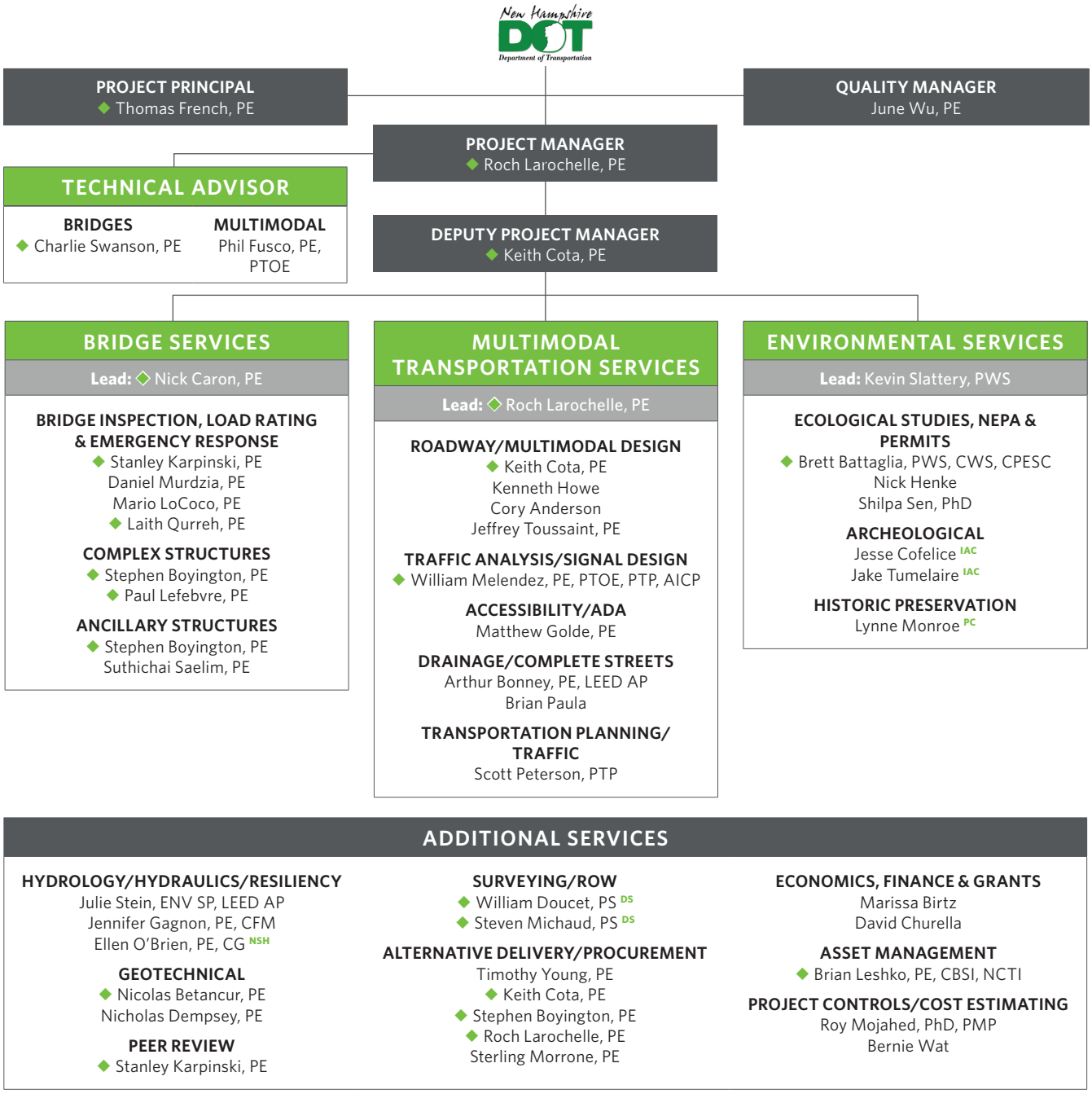
LPA Experience

HDR has a breadth of LPA experience within New Hampshire, Massachusetts and Maine. We take pride in the success of each project and being able to champion these projects to construction. We have staff members who are LPA certified, providing us the depth and breadth to administer projects successfully, and we have built excellent and long-standing working relationships with the various project managers who oversee the project development including LPA program. Our Assistant Project Manager, Keith Cota, PE, who retired from NHDOT as Chief Project Manager, has significant experience in managing and delivering successful projects. Our team's collective knowledge and understanding of the project development process, including LPA process, creates a strong support for administrative successes through the LPA program. Our team has the capability to undertake permitting and environmental research for projects of different complexities, including permitting for wetland, shoreland, Alteration of Terrain, and environmental coordination related to natural, cultural, and historic resources. We are well-versed for the efforts required for the LPA program and have been successful in attaining NEPA approval and design approval for LPA projects.

Public Involvement Process

Public involvement remains a critical focus for project success. Our integration of NHDOT's Context Sensitive Solutions process helps to provide context in how to communicate effectively with success. Our Project Managers all have significant experience in providing informative and comprehensive presentations to the public and project stakeholders. HDR is skilled at informing the public through social media and project websites and can develop sophisticated computer renderings and animations to help the public envision the final product.

Organizational Chart



LEGEND

- Registration from NH

SUBCONSULTANTS

DS = Doucet Survey, Inc.
Survey/ROW Monumentation

IAC = Independent Archaeological Consulting (DBE)
Archaeological Investigations

PC = Preservation Company (DBE)
Historic Resources

NSH = Northstar Hydro
River Hydraulics

Project Team

HIGHWAY AND BRIDGE DESIGN ENGINEERING SERVICES IN SUPPORT OF LPA PROJECTS

KEY PERSONNEL	PROJECT ROLE	YEARS OF EXPERIENCE	YEARS WITH FIRM	LPA CERTIFIED	PROJECT MANAGEMENT	HIGHWAY/PATH DESIGN & SAFETY	BRIDGE/STRUCTURAL DESIGN	ALT PROCUREMENT METHODS	CORRIDOR STUDY PLANNING	BRIDGE INSPECTION	BRIDGE LOAD RATING	HYDROLOGY/HYDRAULICS	ENVIRONMENTAL	TRAFFIC ANALYSIS & SIGNAL DESIGN	GEOTECHNICAL ENGINEER	SURVEYOR	PUBLIC INVOLVEMENT
Thomas French, PE	Project Principal	28	6		●		●	●		●	●						●
Roch Larochelle, PE	Project Manager	34	8	●	●	●		●	●								●
June Wu, PE	Quality Manager	27	16		●	●		●	●								●
Keith Cota, PE	Deputy Project Manager	43	1		●	●		●	●								●
Charles Swanson, PE	Technical Advisor (Bridges)	34	8		●		●	●	●	●	●						●
Phil Fusco, PE, PTOE	Technical Advisor (Multimodal)	33	<1		●	●		●	●			●		●			●
Nick Caron, PE	Bridge Services Lead	14	3	●	●		●			●	●						●
Paul Lefebvre, PE	Complex Structures	11	5	●			●			●	●						
Stephen Boyington, PE	Complex &Ancillary Structures, Alternative Delivery/Procurement	30	2				●	●		●	●						
Daniel Murdzia, PE	Bridge Inspection, Load Rating & Emergency Response	11	9		●		●	●		●	●						●
Stanley Karpinski, PE	Bridge Inspection, Load Rating & Emergency Response, Peer Review	25	25		●		●	●		●	●						
Kenneth Howe	Roadway/Multimodal Design	10	3			●			●								
Cory Anderson	Roadway/Multimodal Design	11	2			●											
Jeffrey Toussaint, PE	Roadway/Multimodal Design	7	<1			●			●								
Matthew Golde, PE	Accessibility/ADA	10	7		●	●											●
Arthur Bonney, PE, LEED AP	Drainage/Complete Streets	19	13		●	●			●			●					●
Brian Paula	Drainage/Complete Streets	9	<1		●	●						●					
Scott Peterson, PTP	Transportation Planning/ Traffic	29	1		●	●			●					●			●
William Melendez, PE, PTOE, PTP, AICP	Traffic Analysis/Signal Design	10	<1			●			●					●			
Kevin Slattery, PWS	Environmental Services Lead	40	3		●			●	●				●				●
Brett Battaglia, PWS, CWS, CPESC	Ecological Studies, NEPA & Permits	30	20										●				
Nick Henke	Ecological Studies, NEPA & Permits	9	3		●			●	●				●				●
Julie Stein, ENV SP, LEED AP	Hydrology/Hydraulics/ Resiliency	23	8		●							●					●

HIGHWAY AND BRIDGE DESIGN ENGINEERING SERVICES IN SUPPORT OF LPA PROJECTS

KEY PERSONNEL	PROJECT ROLE	YEARS OF EXPERIENCE	YEARS WITH FIRM	LPA CERTIFIED	PROJECT MANAGEMENT	HIGHWAY/PATH DESIGN & SAFETY	BRIDGE/STRUCTURAL DESIGN	ALT PROCUREMENT METHODS	CORRIDOR STUDY PLANNING	BRIDGE INSPECTION	BRIDGE LOAD RATING	HYDROLOGY/HYDRAULICS	ENVIRONMENTAL	TRAFFIC ANALYSIS & SIGNAL DESIGN	GEOTECHNICAL ENGINEER	SURVEYOR	PUBLIC INVOLVEMENT
Jennifer Gagnon, PE, CFM	Hydrology/Hydraulics/ Resiliency	15	14									●					
Nicolas Betancur, PE	Geotechnical	14	2												●		
Mario LoCoco, PE	Bridge Inspection, Load Rating & Emergency Response	12	2		●		●			●	●						
Laith Qurreh, PE	Bridge Inspection, Load Rating & Emergency Response	5	2				●	●		●	●						
Suthichai Saelim, PE	Ancillary Structures	20	7				●	●		●	●						
Shilpa Sen, PhD	Ecological Studies, NEPA & Permits	13	1						●				●				
Nicholas Dempsey, PE	Geotechnical	10	6												●		
Timothy Young, PE	Alt Delivery/Procurement	28	2		●		●	●		●	●						●
Sterling Morrone, PE	Alt Delivery/Procurement	9	1		●		●	●		●	●						●
Marissa Birtz	Economics, Finance & Grants	16	13		●			●	●								●
David Churella	Economics, Finance & Grants	11	2						●								
Brian Leshko, PE, CBSI, NCTI	Asset Management	36	23				●			●	●						
Roy Mojahed, PhD, PMP	Project Controls/Cost Estimating	21	2					●	●								
Bernie Wat	Project Controls/Cost Estimating	30	1		●												
SUBCONSULTANTS																	
Jesse Cofelice IAC	Archeological	15	11										●				
Jake Tumelaire IAC	Archeological	17	10										●				
Lynne Monroe PC	Historic Preservation	43	37										●				
Ellen O'Brien, PE, CG NSH	Hydrology/Hydraulics/ Resiliency	40	27									●					
Steven Michaud, PS DS	Surveying/ROW	27	25													●	
William Doucet, PS DS	Surveying/ROW	35	28													●	

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IAC = Independent Archaeological Consulting (DBE)
Archaeological Investigations

PC = Preservation Company (DBE)
Historic Resources

NSH = Northstar Hydro
River Hydraulics

References

SUNAPEE 41300 NH ROUTES 11 AND 103 OVER SUGAR RIVER

Loretta Girard Doughty, PE
Administrator, Bureau of Bridge Design
New Hampshire Department of Transportation
603.271.2731
loretta.doughty@dot.nh.gov

HAMPTON 40797 OCEAN BLVD (NH 1A)

Jennifer Reczek, PE
Consultant Design Chief, Bureau of Bridge Design
New Hampshire Department of Transportation
603.271.2731
jennifer.reczek@dot.nh.gov

CONCORD 14841A NORTH PEMBROKE ROAD OVER SOUCOOK RIVER

David Cedarholm, PE
City Engineer, Engineering Division
City of Concord, New Hampshire
603.225.8520
dcedarholm@concordnh.gov

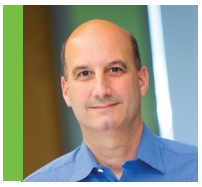
Resumes

Thomas French, PE – Project Principal

Tom has spent his career working both directly for the NHDOT, getting a solid foundation in Department standards and public outreach along the way, and with NHDOT in several capacities, including helping the Department execute an innovative deck replacement project over the course of just one weekend on I-93 over Loudon Road, one of the state's busiest lanes of highway.

RELEVANT EXPERIENCE:

- **NHDOT,** Statewide On-Call Bridge Design Services
- **City of Concord,** Storrs Street Extension (North)
- **City of Concord,** North Pembroke Road, Bridge Replacement



Roch Larochelle, PE – Project Manager

Roch is the Northern New England Section Manager for Civil Engineering in HDR's NE Practice and has over 30 years of diverse technical and professional experience in all aspects of management and development of highway multi-modal transportation assignments. He is a native to the Manchester East Side, has been a steadfast leader in the NH Engineering Community and has a long history of working on transportation and planning projects with the NDHOT and numerous municipalities on local, state and Federally funded (LPA) projects including CMAQ, TE/TAP, HSIP, SAH and SAB programs as well as traditional Ten-Year Plan projects.

RELEVANT EXPERIENCE:

- **City of Concord,** Loudon Road Bridge and Fort Eddy Road Study (SAB)
- **Town of Durham,** Morgan Way/US Route 4 Intersection Improvements (SAH)
- **City of Dover,** Woodman Park School Sidewalk Improvements (SRTS)
- **City of Manchester,** S. Willow Street/Weston Road Intersection Improvements (CMAQ)

June Wu, PE – Quality Manager

June, a Senior Structural Engineer and Project Manager, specializes in structural analysis, complex structure design, design phase management and construction services. She has led many design, replacement and rehabilitation projects as well as bridge inspections. June manages design efforts; directs and supervises engineering personnel; and prepares reports, plans and contract documents.

RELEVANT EXPERIENCE:

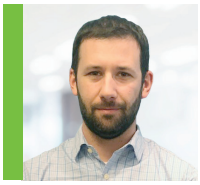
- **NHDOT,** New Castle-Rye Bridge Inspection and Rating
- **NHDOT,** Portsmouth-Kittery Bridge Inspection and Cost Analysis (BICA)
- **NHDOT,** Emergency Inspection & Design Repair of the Sarah Mildred Long Bridge
- **NHDOT,** New Castle-Rye Bridge Inspection and Rating

Keith Cota, PE – Deputy Project Manager

Keith has 41 years of experience in the project management of federal and turnpike intermodal transportation infrastructure projects, alternative project delivery and procurement including policy development and program implementation. Keith also has national experience in roadside safety through AASHTO Technical Committee on Roadside, TRB-AKD20 (formally AFB20) and NCHRP, which involved the development of national publications and roadside safety research studies.

RELEVANT EXPERIENCE:

- **City of Manchester, NH,** S. Willow Street/Weston Road Intersection Improvements (CMAQ)
- **City of Concord, NH,** Loudon Road Bridge/Merrimack River, Rehab #163/111
- **City of Portsmouth, NH,** US Rte. 1 Memorial Bridge Replacement (TE/TAP)

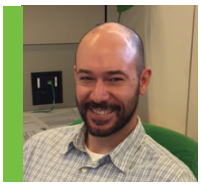


Nick Caron, PE – Bridge Services Lead

Nick is a bridge engineer in HDR's Manchester, NH, office. His experience includes concrete design, prestressed concrete design, steel design, seismic design considerations, bridge inspection, bridge load rating, right of way impact mitigation, plan development, contract documents development, construction inspection, and project management.

RELEVANT EXPERIENCE:

- **City of Concord, NH,** North Pembroke Road Bridge Replacement, Br. No. 183/156
- **Town of Francestown, NH,** 2nd New Hampshire Turnpike over South Branch Piscataquog River, Br. No. 125/077
- **Town of Exeter, NH,** Court Street over Little River Bridge Replacement, Br. No. 095/063



Paul Lefebvre, PE – Complex Structures

Paul is a Structural Engineer has 11 years of experience in the design and load rating of bridges. His experience includes the design detailing review load rating and project management of conventionally-reinforced precast concrete structures including box culverts rigid frames arches retaining walls foundations vaults cisterns and manholes. His responsibilities at the Manchester office include the structural design detailing and load rating of bridges.

RELEVANT EXPERIENCE:

- **City of Concord, NH,** North Pembroke Road Bridge Replacement, Br. No. 183/156 Design Phase Services
- **NHDOT,** Seabrook-Hampton Bridge Replacement, Br. No. 235/025
- **NHDOT,** Preservation of (4) Bridges on NH Route 11 in Sunapee, NH

Stephen Boyington, PE – Complex and Ancillary Structures; Alt. Delivery/Procurement

Steve is a senior bridge/structural engineer in HDR's Manchester, NH, office. He has performed design and/or analysis of precast/prestressed concrete deck beam and girder bridges, single- and multiple-span steel girder bridges, steel truss bridges and precast concrete arch bridges. He is experienced in preparation of documents for alternative delivery projects and has worked as a member of design teams on design-build and PPP projects.

RELEVANT EXPERIENCE:

- **NHDOT,** Interstate Exit 4A Project
- **VTrans,** On-call Services Railroad Bridge Inspection and Load Rating Analysis
- **NHDOT,** Walpole 14540U Project (Replacement of Bridge 079/067)

Daniel Murdzia, PE – Bridge Inspection, Load Rating & Emergency Response

Dan has 10 years of industry experience and his primary responsibilities include the design, inspection, rating and maintenance of highway, railroad and hydraulic structures. He has prepared structural type studies, sketch plans and structural design submissions for concrete, curved steel, truss and timber bridges which carry both vehicular and train traffic. His experience includes performing load rating calculations using AASHTOWAre BrM. Dan is a certified Fracture Critical Bridge Inspection Team Leader and a certified SPRAT Rope Access Technician. His bridge maintenance experience includes inspection management, remedial design, deterioration modeling and asset management.

RELEVANT EXPERIENCE:

- **NHDOT,** Seabrook-Hampton Bridge Replacement
- **MassDOT,** Statewide Non-NBI Bridge Inspections
- **MBTA,** Repair/Rehabilitation of the Merrimack River and Washington Street Bridges

Stanley Karpinski, PE – Bridge Inspection, Load Rating & Emergency Response; Peer Review

Stanley is experienced in the inspection of structures including tunnels and bridges. He has performed load ratings concurrent with inspections using programs including AASHTOWare Bridge for Load Rating. His design experience includes bridge rehabilitation and widening projects and he has completed inspections on complex bridges including movable, swing-span, single and double leaf bascule and vertical lift structures.

RELEVANT EXPERIENCE:

- **NHDOT,** Sarah Long and Memorial Bridges
- **MassDOT,** Non-NBIS Bridge Inspections
- **City of Charlotte,** Charlotte Bridge Inspections NQ
- **Nebraska Department of Roads, NE,** Fracture Critical Bridge Inspection

Kenneth Howe – Roadway/Multimodal Design

Kenny, a roadway designer in HDR's Manchester, NH, office, has 10 years of experience working on federal, state and municipal level projects. His project experience includes highway design, rural road design, signalized and non-signalized intersections, roundabouts and urban development. Kenny has supported NHDOT on projects throughout his career and is familiar with NHDOT standards, policies and procedures.

RELEVANT EXPERIENCE:

- **NHDOT,** Improvements to Ocean Boulevard (NH1A Hampton, NH)
- **City of Keene,** Roundhouse T Rail Trail Extension
- **City of Manchester,** South Willow Street and Weston Road Intersection Improvements

Matthew Golde, PE – Accessibility/ADA

Matt brings 10 years of experience in transportation and land development. He is responsible for project management, roadway and drainage design, traffic engineering, and the design of ADA compliant pedestrian facilities. He has led project teams, produced plan sets for project submittals, as well as preformed quality control tasks. He also has a strong knowledge in the fields of CAD and GIS. Matt also chairs our National Accessibility Team and has the opportunity to tap into this team for standards being used across the country.

RELEVANT EXPERIENCE:

- **MassDOT,** CRC25
- **MassDOT,** ADA Retrofits at Various Locations
- **MassDOT,** Springfield Underpass

Arthur Bonney, PE, LEED AP – Drainage/ Complete Streets

Artie is a project manager with over 18 years of experience in the planning, design and project management of transportation engineering projects. He specializes in urban roadway reconstruction projects that increase safety, resiliency and health of local communities. Artie is experienced in the design and integration of roadway corridors, enhanced pedestrian and bicycle safety treatments, innovative multimodal infrastructure, green stormwater management practices and subsurface utilities.

RELEVANT EXPERIENCE:

- **NHDOT,** Improvements to Ocean Boulevard (NH 1A)
- **City of Boston,** North Station to Seaport Bus Link Planning and Design
- **City of Cambridge,** MA River Street Infrastructure and Streetscapes Improvement Project
- **MBTA,** Task Order 1 - City of Boston Hyde Park Avenue Rapid Bus Lane Transformation Planning and Design

Scott Peterson, PTP – Transportation Planning/ Traffic

Scott has more than 30 years of experience in travel demand modeling and multimodal planning. His multimodal experience has supported numerous, freight, highway, bicycle, pedestrian, aviation, and transit planning studies. As a transportation planner, he has overseen development of travel demand forecasts, air quality inventories, environmental justice analysis, land use studies, and economic impact assessments. Prior to joining HDR he was the Director of Technical Services for the Boston Region MPO overseeing MPO planning efforts, corridor studies, CMAQ Grants, the freight program, NEPA projects, state environmental submissions, FTA New Starts applications, and public outreach to stakeholders.

RELEVANT EXPERIENCE:

- **Boston Region MPO,** Long Range Transportation Plans
- **Boston Region MPO,** 3-C Planning Conformity Analysis and CMAQ Grants
- **MassDOT,** Allston I-90 Multimodal Study
- **MassDOT,** Subregional Transportation Analysis for the Lower Mystic Working Group

William Melendez, PE, PTOE, PTP, AICP – Traffic Analysis/Signal Design

William has over 10 year of experience in both the traffic operations and transportation planning fields on a variety of projects and clients. His project responsibilities include traffic analysis and microsimulation, traffic signal timing design, traffic safety, intelligent transportation systems design, traffic impact and access studies, and bicycle and pedestrian facilities planning. William has increased his knowledge in several technical programs, including AutoCAD, Microstation, Synchro/SimTraffic, PTV Vissim, HCS, and ESRI ArcGIS products.

RELEVANT EXPERIENCE:

- **NHDOT,** Improvements to Ocean Boulevard (NH 1A)
- **City of Manchester, NH,** South Willow Street & Weston Rd Intersection Improvements
- **Cambridge Redevelopment Authority,** Kendall Square Urban Redevelopment Area Streetscape Redesign

Kevin Slattery, PWS – Env Lead/NEPA Specialist

Kevin is the New England Section Manager for Transportation Environmental Services in HDR's Portland, ME office. He is an environmental planner, ecologist and project manager experienced with inland and coastal environments with over 32 years experience. He works directly with state/federal permitting and resource agencies and will coordinate environmental documents, natural and cultural resource studies and permitting on any assignment.

RELEVANT EXPERIENCE:

- **City of Concord, NH,** Loudon Road over Merrimack River
- **City of Concord, NH,** North Pembroke Road Bridge Replacement
- **NHDOT,** Memorial Bridge Replacement (Design-build)
- **Town of Medfield, MA,** Rehabilitation of Green Street

Brett Battaglia, PWS, CWS, CPESC – Environmental Specialist

Brett has over 25 years of professional experience specializing in wetlands; environmental permitting and agency consultation; wildlife and wetlands sciences; land use management and planning; threatened and endangered species surveys and habitat assessments; environmental impact review; and construction inspections.

RELEVANT EXPERIENCE:

- **NHDOT,** NH Route 32 over Martin Brook
- **City of Concord, NH,** North Pembroke Road Bridge Replacement Project
- **Maine Turnpike Authority,** Exit 45 Interchange Reconfiguration Project
- **Maine Turnpike Authority,** Maine Turnpike Widening Project

Julie Stein, ENV SP, LEED AP – Hydrology/ Hydraulics/Resiliency

Julie is an urban planner specializing in water resources bringing over 18 years of experience in stormwater, watershed and drainage infrastructure planning. She focuses on alternatives evaluations and life-cycle assessments for NPDES compliance, resiliency, risk based flood protection, and structural and nonstructural stormwater management design. Prior to joining us, Julie held the position of Director of the Office of Wet Weather Planning and Water Quality Policy for New York City Department of Environmental Protection (DEP).

RELEVANT EXPERIENCE:

- **NHDOT,** Ocean Boulevard – NH Route 1A
- **NYCDEP,** MS4 Stormwater Program
- **City of Newark,** MS4 Compliance Support Services

Jennifer Gagnon, PE, CFM –Hydrology/ Hydraulics/Resiliency

Jennifer has over 10 years of experience in water resources engineering and planning. As a project designer, she is responsible for computations, technical writing, internal coordination, and client correspondence. Her technical experience includes hydrology and hydraulics analysis and modeling techniques related to hydroelectric projects, flood-flow frequency analysis, river-channel and reservoir routing, water resources planning, design of flood control and conveyance structures, and scour analysis on a variety of projects.

RELEVANT EXPERIENCE:

- **Hawks Nest Hydro LLC,** Dam Safety Compliance
- **Erie Boulevard Hydropower LP,** Oswegatchie, Newton Falls PMF Study
- **Texas State Soil and Water Conservation Board,** Dam Assessments
- **Green Mountain Power,** Gage Hinged Flashboard Study

Jeffrey Toussaint, PE – Roadway/Multimodal Design

Jeffrey has six-plus years of diverse experience in roadway design, civil/site design, planning and construction administration on projects including the I-90 Toll Plaza demo and reconstruction, East-West High-Speed Passenger Rail Study, Northern Avenue Bridge Replacement, Memorial Drive Greenway Improvements and 6-10 Connector Interchange Reconstruction.

RELEVANT EXPERIENCE:

- **MassDOT**, Reconstruction of Route 20
- **MassDOT,** ADA Retrofits at Various Locations
- **MBTA**, Columbus Avenue Enhanced Bus Facilities
- **Quonset Development Corporation**, Quonset Multimodal (OWS) Transportation Center Aviation Planning Support

Nicolas Betancur, PE – Geotechnical

Nicolas is a geotechnical engineer with extensive experience in design, analysis, performance evaluation and instrumentation and monitoring of flood protection infrastructure, transportation infrastructure, and coal ash impoundments and landfills. He is capable of effectively performing as technical project manager for complex, large scale civil infrastructure projects involving multidisciplinary teams committed to challenging schedules.

RELEVANT EXPERIENCE:

- **VTrans,** Grafton Bridge No. 20 Replacement
- **MassDOT,** I-90 Connector Tunnel Assessment
- **NYSDOT,** Van Wyck Expressway Capacity and Access Improvements to JFK Airport

Applicable Work Experience

PROJECT RELEVANCE:

- Highway & Bridge preliminary/final design
- Traffic control design
- Traffic analysis and signal design
- Drainage design and stormwater BMP selection
- Environmental documentation/permitting
- Technical writing
- Topographic survey & ROW layout
- Public involvement
- LPA/NHDOT coordination assistance

Loudon Road Bridge Study

City of Concord, NH

Concord, NH

HDR is performing a preliminary design/type study for the rehabilitation of the Loudon Road Bridge. Improvements will enhance access for pedestrians and bicyclists while rehabilitating the existing Red-Listed bridge.

Efforts include evaluation of bridge alternatives as well as traffic and operational analysis of the I-93 Exit 14 interchange and nearby intersection with Fort Eddy Road for mobility, safety and geometric improvements. The project also includes presentations to internal and external stakeholder groups for input and to help build consensus for the proposed solution. The Study and Design of this project is funded through the NHDOT State Aid Bridge (SAB) program and will be funded by FHWA through construction.

PROJECT RELEVANCE:

- Highway preliminary design
- Bridge preliminary Design
- Planning level corridor study
- Design of roadway approach
- Traffic analysis and intersection design
- Technical writing
- Topographic survey
- ROW layout and plan development
- Public involvement

Storrs Street Northern Extension

City of Concord, NH

Concord, NH

HDR is leading a study and final design of the Storrs Street northern extension in downtown Concord that will provide access to developable lands and enhance the connectivity for all modes between North Main Street/Storrs Street and US Route 202/I-393. The corridor will serve as a key north-south link into the downtown core of Concord and reduce traffic demand along Main Street. The project has also included stakeholder involvement and railroad coordination to identify opportunities to realign the railroad corridor to improve connectivity potential.

PROJECT RELEVANCE:

- Highway preliminary design
- Planning level corridor study
- Environmental Analysis
- Traffic analysis and intersection/roundabout design
- Technical writing
- Public involvement

Whitney Road Corridor Planning Evaluation

City of Concord, NH

Concord, NH

HDR evaluated costs and feasibility of constructing a new public roadway from Hoit and Whitney Roads near Interstate 93, Exit 17, south to Sewalls Falls Road to support potential future development along the corridor. Work included traffic analysis, conceptual highway and intersection design, roundabout analysis, environmental evaluation and infrastructure assessment.

PROJECT RELEVANCE:

- Bridge preliminary/final design
- Development of contract plans/documents
- Design of roadway approach, guardrail and superelevation design
- Environmental documentation/permitting
- Hydraulic calculations and analyses
- Geotechnical evaluations and analysis
- Topographic survey & ROW layout
- Public involvement

Replacement of North Pembroke Road Bridge

City of Concord, NH

Concord, NH

HDR prepared an engineering study for this NHDOT State Municipal Bridge Aid Funded project. The preliminary design evaluated rehabilitation or replacement options for the 3-span, 112' steel stringer-bridge and moved to final design with a single-span butted box beam superstructure. Associated efforts included traffic management plans with regional detours, roadway geometrics, environmental coordination and impact analysis, utility coordination and public involvement. Current Final Design services also include development of contract documents for public bidding and construction administration services.

PROJECT RELEVANCE:

- Highway preliminary/final design
- Traffic analysis, intersection and signal design
- Development of contract plans/documents
- Environmental documentation/permitting
- Hydraulic analysis and BMP selection
- Technical writing
- Topographic survey & ROW layout
- Public involvement
- LPA/NHDOT coordination assistance

Weston/South Willow (19-15 CMAQ)

City of Manchester, NH

Manchester, NH

HDR is supporting the City of Manchester, NH with a traffic operations analysis. This project received a grant approval through the Congestion Mitigation and Air Quality (CMAQ) Improvement Program for funding improvements to the Weston Road/South Willow Street intersection to address safety and operational issues and reduce delay/congestion. The project involves HDR assisting the city with Preliminary Design, Environmental Permitting, Final Design, Right-of-Way acquisition assistance as well as development of Contract Documents and Bidding Services for the design and construction of this important intersection. The scope of services included coordination with the City through the NHDOT in accordance with the Local Public Agency Manual for the Development of Projects (LPA).

PROJECT RELEVANCE:

- Highway and Bridge preliminary design
- Sidewalk and shared use path designs
- Corridor Planning, Traffic analysis, intersection & signal design
- Hydraulic calculations, analyses and BMP selection
- Environmental documentation/permitting
- Technical writing
- Topographic survey & ROW layout
- Public involvement

Lebanon Exit 18 Interchange Evaluation and Design

NHDOT

Lebanon, NH

HDR was selected by the NHDOT to evaluate the Exit 18 interchange on Interstate 89 and a segment of NH Route 120 from the intersection of Hanover Street extending north to Etna Road. There are exceptionally long queues on both the Exit 18 interchange ramps and the NH Route 120 corridor due to extremely high traffic volumes during the morning and evening peak hours. The inadequacy of the interchange and adjacent intersections result in lengthened commute times and safety concerns along the I-89 corridor because of vehicles queuing on the shoulders of the north and south bound travel ways. HDR is developing two design alternatives that will improve safety and mobility of the interchange and the Route 120 corridor for all users.

PROJECT RELEVANCE:

- Highway preliminary design
- Sidewalk and shared use path analysis and design
- Traffic analysis, signal design and intersection layouts
- Planning level corridor study
- Environmental analysis and documentation
- Drainage Analysis and BMP Selection
- Topographic survey & ROW layout
- Public involvement
- LPA/NHDOT coordination assistance

Hampton Improvements to Ocean Boulevard (NH Route 1A)

NHDOT

Hampton, NH

HDR is assisting in the development and evaluation of multi-modal transportation alternatives along the 3.3-mile corridor. The project's primary focus is on enhancing the safety and mobility of bicyclists and pedestrians while preserving vehicular operations. HDR is leading the development of corridor and intersection alternatives and a multi-tiered screening process. The alternatives analysis includes the development of a variety of corridor cross-sections that relate to the local land use context and primary corridor users. Project efforts involve modeling corridor and intersection modifications, number of travel lanes, street circulation and orientation patterns, parking location and configuration, integration of an enhanced bicycle facility and defined pedestrian crossing treatments.

PROJECT RELEVANCE:

- Highway & bridge preliminary/final design
- Development of contract plans/documents
- Environmental documentation/permitting
- Hydraulic calculations and analyses
- Technical writing
- Geotechnical evaluations and analysis
- Topographic survey & ROW layout
- Public involvement
- LPA/NHDOT coordination assistance

Sunapee Bridge Preservation

NHDOT

Sunapee, NH

HDR provided Bridge Design Services and Traffic Management Design for bridge preservation of four bridges in the Town of Sunapee. HDR performed a visual inspection of the bridges, and approach roadways. As part of this inspection, HDR identified areas where repair and improvement were required. Design services included repairs to decks, copings, bridge and approach railings aimed at preserving these bridges and improving the roadway approaches. Traffic design services were provided for each of the bridge sites.

PROJECT RELEVANCE:

- Shared use path & Pedestrian crossing design
- Bridge & Railroad preliminary/final design
- Development of contract plans/documents
- Environmental documentation/permitting
- Stormwater pump station design
- Technical writing
- Geotechnical evaluations and analysis
- Topographic survey & ROW layout
- Public involvement

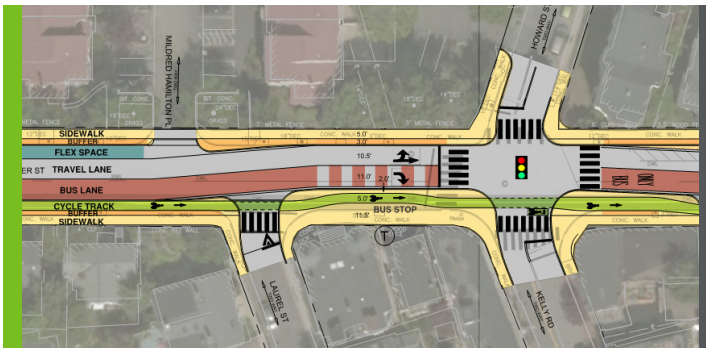
North End Pedestrian Pass Under the Connecticut River Line

MassDOT

Springfield, MA

The new North End Pedestrian Pass Under the Connecticut River Line project provides a safe and direct connection beneath a busy railroad line between two established Springfield North End neighborhoods where none previously existed, resulting in much-needed access to important goods and services and community resources.

HDR performed overall project management, civil/traffic/safety engineering, layout and design of the pedestrian path, underpass design and ADA compliance, security and communications, structural design quality control, railroad coordination/staging and track design, drainage and pump station design, public outreach, preparation of the contract documents, resident engineering services and construction administration.



PROJECT RELEVANCE:

- Multi-modal & Highway preliminary/final design
- Traffic analysis, intersection and signal design
- Development of contract plans/documents
- Environmental documentation/permitting
- Hydraulic calculations and analyses
- Technical writing
- Topographic survey & ROW layout
- Public involvement
- Local Agency coordination assistance

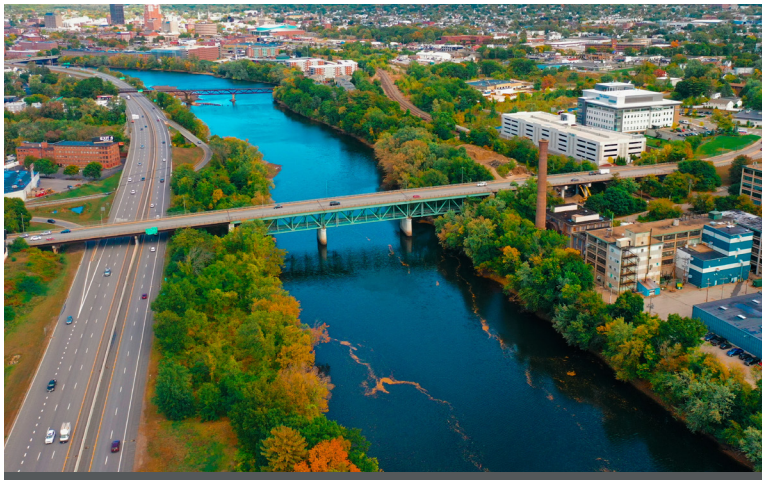
River Street Reconstruction Project

City of Cambridge, MA

Cambridge, MA

The reconstruction project is under construction and will serve to maximize safety and convenience for all modes of travel with the replacement of existing, outdated traffic signal equipment at five intersections to allow improved operations, a lane reduction plus space for dedicated bicycle facilities.

Work includes roadway, traffic signal and streetscape improvements and features full-depth pavement reconstruction and overlay, cement concrete sidewalks and pedestrian ramps, granite curb, separated bike lanes, storm drain improvements, utility adjustments, pavement markings, signage, traffic signals, street lighting and landscape/ architecture elements.



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We practice increased use of sustainable materials and reduction of material use.

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